

TRM Service Specifications for COD

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Business Logic	Platform dependent		Yes	COBOL
Component Framework	Data Management	Reporting and Analysis		Yes	Total access query tool
Service Access and Delivery	Service Requirements	Authentication / Single Sign-on		Yes	Users required to be authenticated and SSO for all appropriate access project is underway.
Service Access and Delivery	Delivery Channels	Intranet		Yes	Customer service provided by internet and intranet connections
Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema	No	
Service Access and Delivery	Delivery Channels	Internet		Yes	Users transmit data via internet connection to ED/FSA
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	J2EE Application server
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML)	No	
Service Interface and Integration	Integration	Middleware	Message-Oriented Middleware (MOM): IBM Websphere MQ	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Business Process Management	No	
Component Framework	Business Logic	Platform independent	Enterprise Java Beans (EJB)	No	
Component Framework	Business Logic	Platform independent	C, C++	No	
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML)	No	
Component Framework	Data Management	Reporting and Analysis	Online Analytical Processing (OLAP)	No	
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	

TRM Service Specifications for COD (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Uniform Resource Locator (URL)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Installation Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Usability Testing (508 Testing)	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Security and Access Control Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Load/Stress/Volume Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Functional Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Business Cycle Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Defect Tracking	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Version Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Requirements Management and Traceability	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Deployment Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Mainframe	No	
Service Platform and Infrastructure	Database / Storage	Storage	Storage Area Network (SAN)	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	

TRM Service Specifications for CPS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Delivery Channels	Internet		Yes	The FAFSA on the WEB system (http://www.fafsa.ed.gov) consists of a group of WEB applications hosted at the VDC. Modules provide the following functionalities: The Internet is a worldwide system of computer networks in which users at any one computer can, if they have permission, get information from any other computer.
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	J2EE
Service Access and Delivery	Access Channels	Other Electronic Channels		Yes	Email
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC)	No	
Service Access and Delivery	Delivery Channels	Intranet		Yes	An Intranet is a private network that is contained within an enterprise. It may consist of many inter-linked local area networks and is used to share company information and resources among employees.
Service Access and Delivery	Delivery Channels	Extranet		Yes	An Extranet is a private network that uses the Internet protocol and the public telecommunication system to securely share part of a business's information or operations with suppliers, vendors, partners, customers, or other businesses.

TRM Service Specifications for CPS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)		Yes	Peer to Peer is a class of applications, that operate outside the DNS system and have significant or total autonomy from central servers, that take advantage of resources available on the Internet.
Service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Platform for Privacy Preferences (P3P)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels		Yes	Terminals
Service Access and Delivery	Access Channels	Other Electronic Channels		Yes	EAI
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Switch	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Mainframe	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Router	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Business Logic	Platform independent	Java Servlet (JSR 53)	No	
Component Framework	Data Management	Reporting and Analysis	Online Analytical Processing (OLAP)	No	
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML)	No	
Component Framework	Presentation / Interface	Content Rendering	eXtensible HTML (XHTML)	No	
Component Framework	Business Logic	Platform independent	JavaScript	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	

TRM Service Specifications for CPS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Presentation / Interface	Content Rendering	Dynamic HTML (DHTML)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Component Framework	Security	Supporting Security Services	Secure Multipurpose Internet Mail Extensions (S/MIME)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Component Framework	Security	Supporting Security Services	Transport Layer Security (TLS)	No	
Service Access and Delivery	Service Requirements	Hosting	Internal (within Agency)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	

TRM Service Specifications for CSB

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Requirements	Legislative / Compliance		Yes	The Direct Loan Servicing System (DLSS) and Debt Management Collection System (DMCS) Exhibits address current Service Access and Deliver, Service Framework and Service Platform tiers as applicable to the Technical Reference Model. However, this is not a 100% solution. Final Technical Reference Model framework for CSB will not be identified until after contract award.

TRM Service Specifications for DLSS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Platform and Infrastructure	Database / Storage	Database	SQL Server	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Component Framework	Data Management	Reporting and Analysis	XML for Analysis	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows.Net	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Component Framework	Data Interchange	Data Exchange	XMI	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	

TRM Service Specifications for DLSS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	

TRM Service Specifications for DMCS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Internet Message Access Protocol / Post Office Protocol (IMAP / POP3)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Liberty Alliance	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Multipurpose Internet Mail Extensions (MIME)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	LAN/Intranet	Ethernet	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	

TRM Service Specifications for DS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Interface and Integration	Interface	Service Discovery	Universal Description Discovery and Integration (UDDI)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	LAN/Intranet	Ethernet	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)	No	
Service Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	

TRM Service Specifications for DS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Interface and Integration	Interface	Service Description / Interface	Web Services Description Language (WSDL)	No	
Service Interface and Integration	Integration	Middleware	Message-Oriented Middleware (MOM): IBM Websphere MQ	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Lightweight Directory Access Protocol (LDAP)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGo v)	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Transformation and Formatting	No	
Component Framework	Data Interchange	Data Exchange	Simple Object Access Protocol (SOAP)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Service Interface and Integration	Integration	Middleware	Transaction Processing Monitor	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	

TRM Service Specifications for DS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Interface and Integration	Interoperability	Data Transformation	eXtensible Stylesheet Language Transform (XSLT)	No	
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML)	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	

TRM Service Specifications for EAI & ITA

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Transformation and Formatting	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Enterprise Server	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Apache	No	
Service Interface and Integration	Interface	Service Description / Interface	Web Services Description Language (WSDL)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Application Connectivity	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	

TRM Service Specifications for FMS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	

TRM Service Specifications for NSLDS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows.Net	No	
Component Framework	Business Logic	Platform dependent		Yes	COBOL
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	Mainframe
Service Interface and Integration	Integration	Enterprise Application Integration	Transformation and Formatting	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Application Connectivity	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Business Process Management	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Component Framework	Data Management	Reporting and Analysis	Online Analytical Processing (OLAP)	No	
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML)	No	
Service Interface and Integration	Integration	Middleware	Message-Oriented Middleware (MOM): IBM Websphere MQ	No	
Service Interface and Integration	Integration	Middleware	Transaction Processing Monitor	No	
Component Framework	Data Management	Database Connectivity	DB2 Connector	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Installation Testing	No	
Component Framework	Presentation / Interface	Content Rendering	Dynamic HTML (DHTML)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Security and Access Control Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Reliability Testing	No	

TRM Service Specifications for NSLDS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Software Engineering	Test Management	Performance Profiling	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Load/Stress/Volume Testing	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Business Cycle Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Functional Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Configuration Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Requirements Management and Traceability	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Defect Tracking	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Network Interface Card (NIC)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Peripherals	Printer	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Redundant Array of Independent Disks (RAID)	No	
Service Access and Delivery	Service Requirements	Hosting	Internal (within Agency)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Random Access Memory (RAM)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Microprocessor	No	
Service Platform and Infrastructure	Database / Storage	Storage	Storage Area Network (SAN)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Hard Disk Drive	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Uniform Resource Locator (URL)	No	

TRM Service Specifications for NSLDS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Facsimile (Fax)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	

TRM Service Specifications for SAIG

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Business Logic	Platform independent		Yes	J2EE
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Access and Delivery	Access Channels	Collaboration Communications		Yes	Call center and EAI
Service Access and Delivery	Service Transport	Supporting Network Services	Internet Message Access Protocol / Post Office Protocol (IMAP / POP3)	No	
Service Access and Delivery	Service Transport	Service Transport		Yes	MOM (Message-Oriented Middleware)
Service Interface and Integration	Interoperability	Data Format / Classification		Yes	ASCII TEXT FILES COMPRESSED FIXED FLAT COMPRESSED
Component Framework	Data Interchange	Data Exchange		Yes	ASCII Text
Component Framework	Security	Supporting Security Services		Yes	Encryption Software
Service Platform and Infrastructure	Database / Storage	Database		Yes	MS Access
Component Framework	Data Management	Reporting and Analysis		Yes	Custom
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP)	No	
Service Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	

TRM Service Specifications for SAIG (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Multipurpose Internet Mail Extensions (MIME)	No	
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML)	No	
Component Framework	Business Logic	Platform dependent	C-Sharp (C#)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Component Framework	Security	Certificates / Digital Signature	FIPS 186	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	

TRM Service Specifications for TPM

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)		Yes	Peer to Peer is a class of applications, that operate outside the DNS system and have significant or total autonomy from central servers, that take advantage of resources available on the Internet.
Service Access and Delivery	Service Transport	Supporting Network Services	Extended Simple Mail Transfer Protocol (SMTP)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Platform for Privacy Preferences (P3P)	No	

TRM Service Specifications for TPM (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Transport	Supporting Network Services	Internet Message Access Protocol / Post Office Protocol (IMAP / POP3)	No	
Service Access and Delivery	Service Requirements	Authentication / Single Sign-on		Yes	Consolidate Multiple sign-ons now required to do business with Federal Student Aid
Service Access and Delivery	Delivery Channels	Internet		Yes	The Internet is a worldwide system of computer networks in which users at any one computer can, if they have permission, get information from any other computer.
Service Access and Delivery	Delivery Channels	Intranet		Yes	An Intranet is a private network that is contained within an enterprise. It may consist of many inter-linked local area networks and is used to share company information and resources among employees.
Service Access and Delivery	Delivery Channels	Extranet		Yes	An Extranet is a private network that uses the Internet protocol and the public telecommunication system to securely share part of a business's information or operations with suppliers, vendors, partners, customers, or other businesses.
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML)	No	
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	J2EE
Service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Liberty Alliance	No	

TRM Service Specifications for TPM (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Interface and Integration	Interface	Service Description / Interface	Web Services Description Language (WSDL)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Switch	No	
Service Access and Delivery	Service Requirements	Hosting	Internal (within Agency)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Router	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Firewall	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000	No	
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Data Management	Reporting and Analysis	Online Analytical Processing (OLAP)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Component Framework	Business Logic	Platform independent	Java Servlet (JSR 53)	No	
Component Framework	Business Logic	Platform independent	JavaScript	No	
Component Framework	Presentation / Interface	Content Rendering	eXtensible HTML (XHTML)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Component Framework	Presentation / Interface	Content Rendering	Dynamic HTML (DHTML)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	

TRM Service Specifications for TPM (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Security	Supporting Security Services	Transport Layer Security (TLS)	No	
Component Framework	Security	Supporting Security Services	Secure Multipurpose Internet Mail Extensions (S/MIME)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	H.323	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Component Framework	Data Interchange	Data Exchange	Simple Object Access Protocol (SOAP)	No	
Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema	No	
Service Access and Delivery	Service Transport	Supporting Network Services	T.120	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Multipurpose Internet Mail Extensions (MIME)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	

TRM Service Specifications for VDC

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Delivery Channels	Internet		Yes	Provide access and security to external internet locations.
Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)		Yes	Provide secure peer to peer connections to valid customers.
Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)		Yes	Provide secure VPN access to FSA trading partners.
Service Access and Delivery	Delivery Channels	Intranet		Yes	Provide intranet access to FSA staff and supporting contractors inside via EDNET and VDC firewalls.
Service Access and Delivery	Delivery Channels	Extranet		Yes	Provide limited access to supporting staff outside VDC firewall.
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Extended Simple Mail Transfer Protocol (SMTP)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows.Net	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Component Framework	Security	Certificates / Digital Signature	FIPS 186	No	
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Lightweight Directory Access Protocol (LDAP)	No	
Service Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)	No	

TRM Service Specifications for VDC (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	T.120	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	